



### Note:

UTM machine on which the regular tests are carried out is calibrated timely to ensure that our test reports are 100% correct and authentic. We have further attached sample copies of Amravati TMT FE-500 test reports which are provided when the client purchases our steel. The ingots from which the Amravati TMT bars are produced are manufactured as per ISI standards. The quality certificate of our ingots is attached further.

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# Delhi Test House- Ingot Test Report



# DELHI TEST HOUSE

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Report No : 26202090429GEN2213  
 Date : 06-05-2009  
 Date of Receipt : 29-04-2009  
 Party Ref No : LETTER DATE: 28.04.2009

Issued to: The Commercial Manager  
 Aar Aar Castings Ltd.,  
 Vill.Jharmajri, Barotiwala, Indl.Area,  
 Beddi, Dist. Solan (H.P.)

Sample Description-M.S. INGOT (AMRAVATI STEEL)

## TEST REPORT

Sl.no	Tests	Test Values	Test Method	Requirement IS:2810-1992, DESGN-C 20.GR-A	Conformity
<b>1.PARAMETER</b>					
1	Carbon, % By Mass	0.20	IS:228 (P-1)	0.17-0.23	Yes
2	Manganese, % By Mass	0.54	IS:228 (P-2)	0.30-0.60	Yes
3	Sulphur, % By Mass	0.018	IS:228 (P-9)	0.05 MAX	Yes
4	Phosphorus, % By Mass	0.025	IS:228 (P-3)	0.05 MAX	Yes
5	Carbon Equivalent, % By Mass	0.29	BY CALCULATION	0.42 MAX	Yes
6	Silicon, % By Mass	0.16	IS:228 (P-8)	NOT LESS THAN 0.10	Yes
7	Nitrogen, % By Mass	0.004	IS:228(P-19)	NOT EXCEED 0.012	Yes
8	Chromium, % By Mass	NI	IS:228 (P-6)		
9	Molybdenum, % By Mass	NI	IS:228 (P-7)		
10	Vanadium, % By Mass	0.0018	AAS		
11	Nickel, % By Mass	NI	IS:228 (P-5)		
12	Copper, % By Mass	0.01	AAS		

**DINESH GOEL**  
 Authorised Signatory

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N.A.B.L. / ISO-9001 ACCREDITED LABORATORY

Director (S&D)